

**DEPARTMENT OF
ELECTRONICS & COMMUNICATION
ENGINEERING**

**NEWSLETTER
JANUARY – JUNE 2026 (ISSUE-2)**

**WELCOME TO THE
FUTURE OF EDUCATION**

An Institute of the Students, for the Students, by the Students



VISION AND MISSION OF THE INSTITUTE

VISION

Technical and Management leaders engaged in the evolution of life, being at the frontiers of the continuous technological and administrative breakthroughs, inspired by ongoing exploration of self, society, and nature through self-reflective consciousness by building a culture of inspiration, exploration and growth.

MISSION

M-1 Having a culture of inspiration, exploration, and invention through effective, experiential teaching-learning giving rise to ever-evolving knowledge and wisdom.

M-2 To have self-inspired students ever engaged in continually working upon and sharpening and deepening computational, creative, innovative, and leadership consciousness.

M-3 Having students established in self-reflective consciousness, committed to personal, social & human integrity, and engaged in deep inquiry and conversation, giving rise to shared, inter-subjective human values and consciousness.

VISION AND MISSION STATEMENT OF THE DEPARTMENT

VISION

To be a leading center of excellence in Electronics and Communication Engineering, fostering innovation, research, and leadership through reflective and conscious learning while exploring self, society, and nature.

MISSION

M1: To promote inspiration, innovation, and hands-on learning in Electronics and Communication Engineering for advancing knowledge, technology, and experiential education.

M2: To develop self-motivated students with strong technical, creative, and leadership skills through continuous learning and professional skill enhancement.

M3: To nurture responsible engineers committed to integrity, lifelong learning, reflective practice, and contributing to society through shared human values.

SEMESTER EVENT CHRONOLOGY

A snapshot of major ECE Department activities in the Even Semester 2025–26



Six Days Online
Faculty Development Program
On
Sustainable Energy Technologies
for Climate Mitigation
6th to 11th October 2025



ORGANIZED BY
Department of Electronics & Communication Engineering
Echelon Institute of Technology, Faridabad,
Haryana, India

ABOUT EIT
 Echelon Institute of Technology (EIT), Faridabad, established in 2007, is a premier institution dedicated to academic excellence, innovation, and holistic development. EIT is affiliated to Guru Gobind Singh Indraprastha University, Delhi and is approved by AICTE, Ministry of Education, and Government of India. At EIT, we strive to nurture technical and managerial leaders who drive change and innovation through a culture of inspiration, exploration, and continuous learning. We place a strong emphasis on experiential and outcome-based education, providing students with the practical skills and knowledge necessary to thrive in an ever-evolving global landscape.

ABOUT THE DEPARTMENT

This department was established during the inception of the institute in 2007 as the Department of Electronics and Communication Engineering (ECE). The Department was set up to nourish the students into highly skilled engineers with extensive knowledge in the field of Electronics & Communication. The department is well equipped with all the gadgets, instruments and software required for experimental work. Project work throughout the course strengthens the necessity for a combination of practical and theoretical skills and abilities. The students are also encouraged to participate in extracurricular activities and clubs.

ABOUT THE FDP

The Online Faculty Development Programme (FDP) on "Sustainable Energy Technologies for Climate Mitigation" is designed to empower faculty members and researchers with advanced knowledge of sustainable and renewable energy systems. This programme aims to provide in-depth understanding of emerging technologies such as solar, wind, biomass, hydrogen, and energy storage systems, highlighting their critical role in combating climate change and achieving global sustainability goals. It seeks to enhance educators' ability to integrate climate mitigation and clean energy topics into academic curricula and research, while promoting interdisciplinary learning and fostering collaboration among academia, industry, and policy institutions. Participants will develop a research-oriented mindset focused on innovative, low-carbon technologies and practical solutions for energy sustainability. Through this FDP, faculty members will gain comprehensive insights into clean energy systems, enabling them to effectively teach and mentor students in related subjects and projects. Additionally, attendees will be equipped to contribute to institutional initiatives aligned with national and global energy policies, promoting collaborative research, publications, and proposal writing in the renewable energy sector. Ultimately, the programme aims to cultivate change agents who drive sustainability awareness and action within their institutions and communities. Expected outcomes include improved teaching practices, enhanced guidance for student projects in sustainable energy, and strengthened academic-industry partnerships to support

India's climate action goals and its transition to a greener future.

ABOUT ATAL ACADEMY

The AICTE Training and Learning (ATAL) Academy was established with the vision to empower faculty members in achieving the goals of higher education, including access, equity, and quality. The Academy conducts a series of workshops in key areas identified by AICTE, aiming to enhance the technical education landscape across the country. Its objectives include setting up a dedicated platform to plan and facilitate the delivery of quality technical education, supporting technical institutions in promoting research, innovation, and entrepreneurship through targeted training programs, and emphasizing the empowerment of technical teachers and technicians by leveraging information and communication technologies. The Academy also utilizes platforms like SWAYAM and other resources to deliver effective training. Furthermore, it provides diverse opportunities for professional development and knowledge exchange through workshops, orientation programs, learning communities, peer mentoring, and various faculty development initiatives. Additionally, the ATAL Academy supports policymakers in integrating relevant training components to meet evolving educational needs.

ORGANIZERS

CHIEF PATRON
Mr. Prabhat Agrawal
 (Honorable Chairman, EIT, Faridabad)

PATRON
Dr. Arvind Kumar Pandey
 Director, EIT Faridabad

COORDINATOR
Dr. Anurag Dwivedi
 Dean, R&D, EIT, Faridabad

CO-COORDINATOR
Dr. Pramod Singh
 (Dean First Year, EIT, Faridabad)

09–14 FEBRUARY 2026

ATAL Faculty Development Programme

“Sustainable Energy Technologies for Climate Mitigation”

A six-day online ATAL FDP was organized by the Department of ECE. The programme brought together faculty and experts around emerging sustainable energy technologies, climate mitigation, renewable energy and research opportunities. The FDP strengthened faculty capacity for contemporary teaching and research.

An Initiative by "The Last Career"

ECHELON
TRANSFORMING THE EDUCATION

Affiliated to GGSIPU
Guru Gobind Singh
Indraprastha
University

NBA

IEEE
STB-1200-1
STUDENTS BRANCH
ECHELON INSTITUTE OF TECHNOLOGY, FARIDABAD

Organised by IEEE Student Branch EIT

FROM DESIGN TO REALITY: 3D PRINTING WORKSHOP

Date 16 February 2026	Time 10:35 AM to 12:15 PM	Venue F-35

For B.Tech 4th sem & BCA 4th sem students

IEEE Student Coordinators
Dev (23cseds009) | Aalekh (23cseds001)

16 FEBRUARY 2026

From Design to Reality: 3D Printing Workshop

Organised by IEEE Student Branch, EIT

A hands-on workshop introduced students to the journey from digital design to physical 3D-printed objects. The session was conducted for B.Tech 4th Semester and BCA 4th Semester students at F-35 from 10:35 AM to 12:15 PM, with emphasis on additive manufacturing and practical exposure.



MARCH 2026

HackIndia 2026

The Professional Development Cell organized HackIndia 2026, providing students an opportunity to participate in an innovation-driven Web3 and Artificial Intelligence hackathon environment. The activity encouraged teamwork, problem solving, technology application and solution development.

Seminar on Mitigation of Air Pollution in NCR at Institution of Engineers New Delhi



MARCH 2026

ECE students, along with faculty member Mr. Kumail Hasan Naqavi, attended the seminar on “Mitigating Air Pollution in NCR: Causes, Impacts on Vulnerable Population and Solutions,” gaining valuable insights into air-quality challenges, their impacts, and sustainable mitigation strategies.

VISUAL HIGHLIGHTS

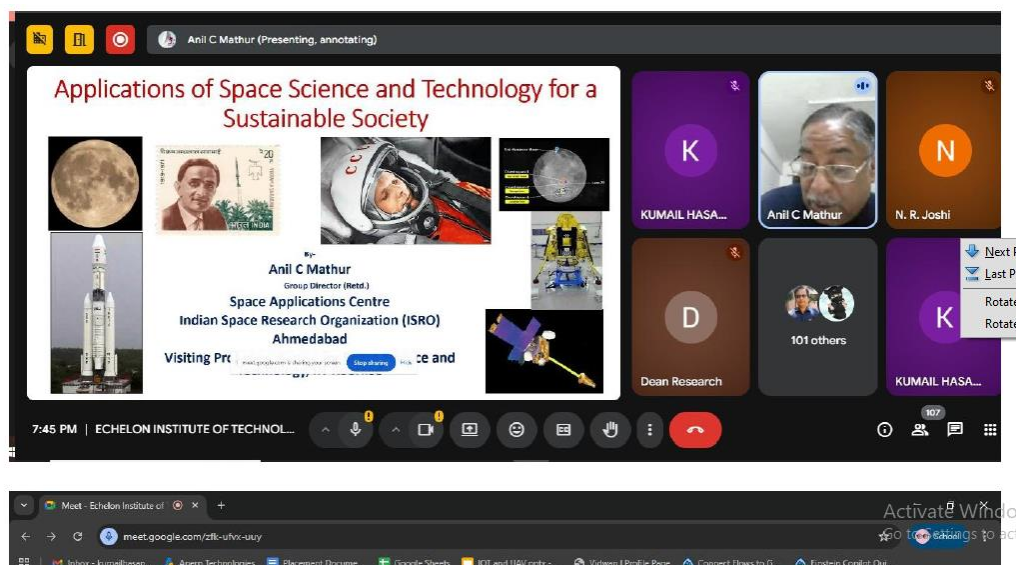
Hands-on learning, expert interaction and student engagement



3D Printing Workshop — expert-led practical interaction



Students engaged in the 3D printing learning session



Expert interaction on Applications of Space Science and Technology for a Sustainable Society

MPACT & WAY FORWARD

Strengthening ECE through practical learning, innovation and professional exposure

Student-Centric Learning — Activities were designed to complement curriculum delivery with demonstrations, practical exposure, expert interaction and collaborative learning.

Emerging Technology Exposure — 3D printing, sustainable energy technologies, space applications, Web3 and Artificial Intelligence provided students and faculty with exposure to rapidly evolving technology domains.

Professional & Research Orientation — Faculty development and expert-led sessions encouraged continuous professional learning, interdisciplinary research and application-oriented thinking.

Innovation Culture — Hackathon and hands-on activities created opportunities for students to convert ideas into prototypes, solutions and collaborative projects.

Department Perspective

The Even Semester 2025–26 reflects the department's continued emphasis on experiential learning and professional development. By integrating academic instruction with workshops, faculty development, expert sessions and innovation platforms, the ECE Department aims to prepare students for technology-driven careers and meaningful contributions to society.

LOOKING AHEAD

More workshops • stronger industry interaction • research & innovation • student projects • emerging technology exposure

INTERNATIONAL CONFERENCE HIGHLIGHT

ICASTSD VIRTUAL-2026 • 29–30 MAY 2026

International Conference on AI, Smart Technologies and Sustainable Development

(ICASTSD VIRTUAL-2026)

The poster features the Echelon Institute of Technology logo at the top left, with the tagline 'TRANSFORMING THE EDUCATION'. To its right is the GGSIPU logo and text: 'Affiliated to GGSIPU, Guru Gobind Singh Indraprastha University'. The main title 'INTERNATIONAL CONFERENCE ON AI, SMART TECHNOLOGIES AND SUSTAINABLE DEVELOPMENT (ICASTSD VIRTUAL-2026)' is centered in large blue and green fonts. Below the title, the dates 'MAY 29-30, 2026' are displayed in a green box. At the bottom, two sections are separated by a vertical line: 'Organized by: Echelon Institute of Technology (EIT), Faridabad, (Delhi NCR), Haryana, India (affiliated to Guru Gobind Singh Indraprastha University, Delhi) www.eitfaridabad.com' and 'Association with: Inspira Research Association- IRA Jaipur, Rajasthan, India (A leading registered organization for Research Development & Advancement) www.inspirajournals.com'. A circular logo for Inspira Research Association is also present in the top right corner.

Organized by Echelon Institute of Technology (EIT), Faridabad, in association with Inspira Research Association (IRA), Jaipur.

CONFERENCE AT A GLANCE

The International Conference on AI, Smart Technologies and Sustainable Development (ICASTSD VIRTUAL-2026) was organized by Echelon Institute of Technology on 29–30 May 2026. The conference brought together academic, research and technology perspectives around Artificial Intelligence, smart technologies and sustainable development, strengthening EIT's research and innovation ecosystem.

Key Focus Areas: Artificial Intelligence • Smart Technologies • Sustainable Development • Research & Innovation • Interdisciplinary Collaboration

PLACEMENT & CAREER DEVELOPMENT HIGHLIGHT

TECHNICO INDUSTRIES LTD. • CAMPUS PLACEMENT DRIVE • 30 MAY 2026



Selected Students with Dean R&D & HoD ECE Dr. Pramod Singh, Training & Placement Head Dr. Sangeeta

Company	Technico Industries Ltd.
Role	Technical Positions
Date	30 May 2026
Time	10:00 AM
Venue	Seminar Hall, II Floor, Academic Block
Eligibility	B.Tech / ME / ECE / EEE

1. Introduction

Echelon Institute of Technology, Faridabad, organized a campus placement drive by Technico Industries Ltd. on 30 May 2026. The drive provided eligible students with an opportunity to interact with an industry recruiter and explore technical career opportunities.

2. Objective of the Drive

To provide students with direct exposure to industry recruitment processes; to facilitate employment opportunities in technical roles; to enable students to demonstrate their academic knowledge, technical skills and professional communication; and to strengthen industry–academia interaction and career readiness.

3. Student Participation and Selection

Students from eligible B.Tech/ME/ECE/EEE programmes participated in the placement process. The drive involved interaction with the recruiting organization and assessment for suitable technical positions. As an outcome of the drive, four ECE students successfully secured placement opportunities with Technico Industries Ltd.

4. Achievement and Impact

The successful placement of four ECE students is a significant achievement for the Department of Electronics & Communication Engineering. It reflects the students' technical preparedness and professional competence and demonstrates the value of continuous industry-oriented training and career development activities. The drive also contributed to strengthening the institute's industry interface and creating pathways for future recruitment opportunities.

5. Conclusion

The Technico Industries Ltd. campus placement drive was a valuable industry–academia engagement. The successful selection of Tuneer, Vineet, Neeraj and Fardeen is a matter of pride for Echelon Institute of Technology and the ECE Department. The department extends its congratulations to the selected students and wishes them success in their professional careers.

PLACEMENT SUCCESS

4 ECE STUDENTS SUCCESSFULLY PLACED

Tuneer • Vineet • Neeraj • Fardeen

STARTUP & INNOVATION HIGHLIGHT

CIRCUITCRATE • SONIPAT STARTUP SUMMIT 4.0 • 12–13 FEBRUARY 2026

CircuitCrate Team at Sonipat Startup Summit 4.0

An inspiring exposure to entrepreneurship, innovation and startup collaboration



CircuitCrate, an ECE startup initiative, represented Echelon Institute of Technology at Sonipat Startup Summit 4.0.

INNOVATION IN ACTION

The CircuitCrate team, an ECE startup from Echelon Institute of Technology, participated in Sonipat Startup Summit 4.0 on 12–13 February 2026. The event provided valuable exposure to the startup ecosystem and enabled the team to interact with entrepreneurs, innovators, industry representatives and fellow startup teams.

The team gained valuable insights from experienced entrepreneurs, explored opportunities for collaboration and networking, and strengthened its motivation to scale CircuitCrate as an innovative technology and education venture.

Key Takeaways

- Exposure to the startup and innovation ecosystem.
- Interaction and networking with entrepreneurs and industry stakeholders.
- Insights into building and scaling impactful technology solutions.
- Opportunities for meaningful collaboration and future partnerships.
- Greater motivation to develop CircuitCrate as an ECE-led innovation venture.

12–13 FEB

2026

CIRCUITCRATE

ECE Startup

STARTUP SUMMIT

Sonipat 4.0

Blood Donation Drive



Presenting

NATIONAL SERVICE SCHEME
Echelon Institute of Technology

BLOOD DONATION DRIVE

 22nd April 2026 |  11 AM onwards |  Library Block



In Collaboration with
Cribs Blood Centre | V Care Hospital

"Your Blood Can Be Someone's Tomorrow"

Under the Guidance of
Well Trained Healthcare Workers

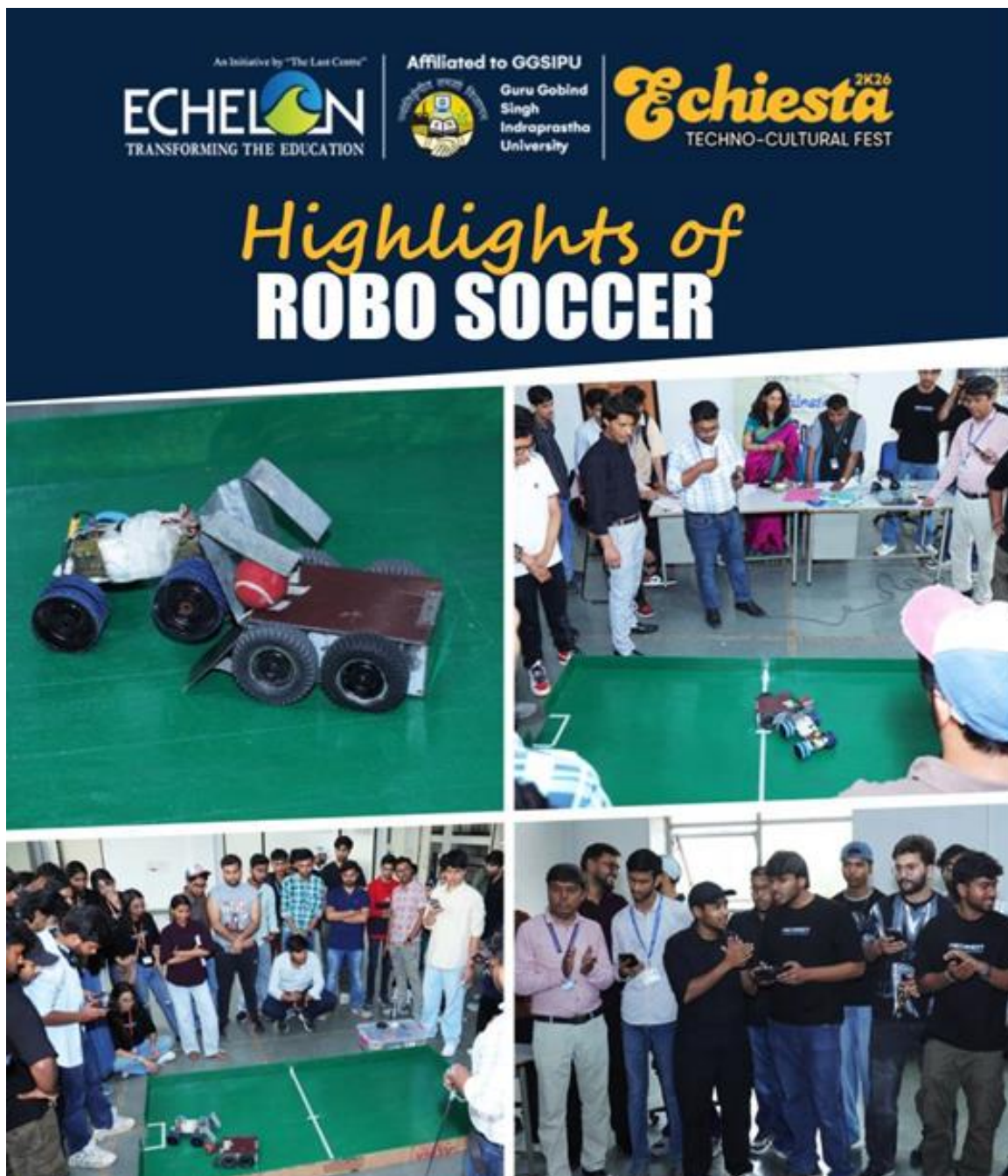
Coordinators
Akshita Aarti
8882067826 96712 52651

Echelon Institute of Technology organized a Blood Donation Drive in collaboration with Cribs Blood Centre and V Care Hospital. The initiative promoted social responsibility and community service, with students and staff contributing to a meaningful healthcare cause under the guidance of trained healthcare workers.

ECHIESTA TECHNO-CULTURAL FEST

Robo Soccer – Echiesta 2K26

Robo Soccer showcased the practical application of robotics, embedded systems, electronics, control and teamwork. Students demonstrated and operated custom-built robotic vehicles in a competitive arena, providing an engaging platform for hands-on engineering, problem-solving and innovation.



TECHELON 2026



TECHELON 2026 – A Grand Celebration of Experiential Education

The event witnessed active participation from students of B.Tech, BBA, and BCA programs who explored the importance of experiential education and industry-oriented learning in today's rapidly evolving world.

The event was honored by the presence of distinguished guest speakers:

◆ Mohammad Rihan

Director General, National Institute of Solar Energy

◆ Prof. Asheesh K Singh

Professor, MNNIT & IEEE Senior Member

EIT–IIRS–ISRO Nodal Centre Initiative

An Initiative by "The Last Centre"

ECHELON
TRANSFORMING THE EDUCATION

Affiliated to GGSIPU
Guru Gobind
Singh
Indraprastha
University

IIRS-ISRO NODAL CENTRE

In collaboration with
**Indian Institute of Remote Sensing
(IIRS), Dehradun**

Antennae
Antennae
Ground antennae
Cartosat

**An invitation to the culture of inspiration, exploration,
invention and growth.**

+91 9999753763

www.eitfaridabad.com

Echelon Institute of Technology strengthened its academic and technological outreach through the IIRS–ISRONodal Centre initiative in collaboration with the Indian Institute of Remote Sensing (IIRS), Dehradun. The initiative creates opportunities for students and faculty to engage with remote sensing, geospatial technologies and space-technology applications through learning and capacity-building activities.

ECE TECHNOLOGY WATCH

NEW DEVELOPMENTS IN ELECTRONICS & COMMUNICATION • TECHNICAL ARTICLES

Connecting classroom concepts with the technologies shaping the next generation of engineering

6G / IMT-2030	AI + Communication, ISAC, ultra-low latency, ubiquitous connectivity
CHIPLETS	UCIe 3.0, heterogeneous integration, high-bandwidth die-to-die links
OPTICAL INTERCONNECTS	Silicon photonics, optical I/O, AI data-center networking
NTN / SATELLITE	5G-NTN, regenerative payloads, satellite-IoT and terrestrial integration
EDGE AI	Local inference, intelligent sensors, low-power accelerators and distributed intelligence
SMART SENSING	Integrated sensing + communication for positioning, mapping and environment awareness

WIRELESS COMMUNICATION

6G: When the Network Becomes a Sensor and an AI Platform

The next generation of mobile communication is being shaped around IMT-2030 (6G). The emphasis is moving beyond simply increasing data rate toward networks that combine communication, sensing, computing and artificial intelligence. In February 2026, ITU-R WP 5D completed draft minimum technical performance requirements for IMT-2030, covering six usage scenarios including AI and communication and integrated sensing and communication (ISAC).

Why it matters for ECE: ECE engineers will need to combine RF/microwave design, antennas, signal processing, machine learning and network architecture. ISAC is particularly important because the same radio infrastructure can support both data transmission and functions such as positioning, localization, object detection and mapping.

Key concepts: AI-native networking • ISAC • high-frequency radio • beamforming • distributed intelligence • energy efficiency

SEMICONDUCTOR & VLSI

Chiplets and UCIe 3.0: The Rise of Modular Electronics

Large monolithic chips are increasingly being complemented by chiplet-based system-in-package architectures. UCIe 3.0 provides an open die-to-die interconnect standard with 48 GT/s and 64 GT/s data-rate options, along with improvements in manageability, power efficiency and system flexibility. This approach allows different functional dies to be integrated into a single package.

Why it matters for ECE: Chiplet design creates opportunities for ECE students in digital VLSI, high-speed PCB design, signal integrity, power integrity, packaging and hardware architecture. It also demonstrates why electrical design continues to matter even as semiconductor systems become highly heterogeneous.

Key concepts: Chiplets • SiP • die-to-die links • signal integrity • power delivery • advanced packaging • UCIe

ADDITIONAL DEPARTMENT & INSTITUTE HIGHLIGHTS

Academic • Innovation • Outreach • Technical & Co-curricular Engagement

TECHNICAL ARTICLES

SHORT READS FOR ECE STUDENTS & FACULTY

PHOTONICS & HIGH-SPEED COMMUNICATION

Optical Interconnects: Moving Data with Light

As AI and high-performance computing demand rapid movement of data between processors, memory and network devices, electrical interconnects face increasing bandwidth, reach and power challenges. Silicon photonics and co-packaged optical I/O are emerging as important approaches. In February 2026, ITU released the ION-2030 framework describing how optical networks can evolve for AI, 6G, data centres, broadband and integrated sensing and communication.

Why it matters for ECE: This development connects electromagnetics, optical communication, semiconductor devices and high-speed electronics. Future ECE engineers can work across lasers, photodetectors, waveguides, optical transceivers, signal integrity and network architecture.

Key concepts: Silicon photonics • optical transceivers • photodetectors • waveguides • co-packaged optics • fibre communication

SATELLITE & WIRELESS COMMUNICATION

5G Non-Terrestrial Networks: Extending Connectivity Beyond the Tower

Non-terrestrial networks (NTN) integrate satellites or high-altitude platforms into communication systems. 3GPP's continuing NTN evolution includes improved terminal performance, uplink capacity, service-area notification and regenerative payload concepts. NTN can support coverage in remote areas and complement terrestrial networks for IoT, mobility and resilient communications.

Why it matters for ECE: ECE students can explore satellite links, antenna systems, Doppler compensation, propagation modelling, link budgets, RF front ends and network integration. NTN is a strong interdisciplinary area connecting communication engineering with aerospace and embedded systems.

Key concepts: LEO satellites • link budget • Doppler • RF front end • NTN • satellite IoT • regenerative payload

EMBEDDED SYSTEMS & IOT

Edge AI: Bringing Intelligence Closer to the Sensor

Edge AI moves selected AI inference tasks from remote cloud servers toward sensors, embedded processors and local gateways. Processing data near the source can reduce latency, communication load and dependence on continuous cloud connectivity. This is especially relevant for smart cameras, industrial IoT, robotics, drones and intelligent monitoring systems.

Why it matters for ECE: For ECE, Edge AI creates a natural convergence of embedded systems, microcontrollers, sensors, DSP, communication and machine learning. Students can build practical projects in which a sensor captures data, an embedded processor performs inference and only useful information is transmitted.

Key concepts: TinyML • NPUs • sensor fusion • embedded ML • low-power processing • IoT • real-time inference

SUGGESTED STUDENT MINI-PROJECTS

- Design an ISAC-inspired radar/communication simulation using MATLAB or Python.
- Compare a conventional monolithic SoC architecture with a chiplet-based architecture.
- Build an Edge-AI sensor node using ESP32/Raspberry Pi and a lightweight ML model.
- Calculate a LEO satellite communication link budget including free-space path loss and Doppler shift.
- Model an optical-fibre link and study attenuation, dispersion and receiver performance.

ECHELON INSTITUTE OF TECHNOLOGY

FARIDABAD | HARYANA

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING NEWSLETTER

JULY – DECEMBER 2025 | ISSUE 1

WELCOME TO THE
FUTURE OF EDUCATION

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WELCOME TO THE FUTURE OF EDUCATION

Innovation • Experiential Learning • Student Achievement • Community

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SEMESTER EVENT CHRONOLOGY

July–December 2025 at a Glance

DATE	EVENT	THEME
14–19 July 2025	Five-Day Online FDP: Recent Trends and Applications of AI	Faculty development
15 August 2025	79th Independence Day Celebration	Patriotism & civic values
5 September 2025	ICT Academy BRIDGE '25 — Next Gen Edupreneur Award	Institutional recognition
15–17 October 2025	Coden'Circuitz Workshop with Ryan International School	STEM outreach
7 November 2025	Volleyball Gold at IIT Kanpur UDGOSH 2025	Sports achievement
11 November 2025	Zinnovation 3.0 — Best Hardware Award	Student innovation
14 November 2025	Echelon Premier League (EPL)	Sports & teamwork
23 November 2025	Mental Health & Wellness for Educators	Community engagement
27 November 2025	Drone Technology Workshop	Emerging technology
28 November 2025	College Ke Tashanbaaz — RJ Nalwa	Campus engagement

FACULTY DEVELOPMENT AND RESEARCH



Five Day Online

Faculty Development Program

on

**Recent Trends and Applications of
Artificial Intelligence**

14th to 19th July 2025



ORGANIZED BY



**Department of Electronics and
Communication Engineering**
Echelon Institute of Technology, Faridabad,
Haryana, India

ABOUT THE EIT

Echelon Institute of Technology (EIT), Faridabad, established in 2007, is a premier institution dedicated to academic excellence, innovation, and holistic development. EIT is affiliated to JC Bose University of Science & Technology, YMCA, Faridabad, Haryana, and is approved by AICTE, Ministry of HRD, Government of India, and the Directorate of Technical Education, Haryana.

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering (ECE) was established in 2007, at the inception of the institute. It was founded with the vision of nurturing students into highly skilled engineers with a strong foundation in Electronics and Communication. The department is fully equipped with modern instruments, tools, and software essential for hands-on experimental learning. Emphasis on project work throughout the curriculum ensures a balanced development of both theoretical knowledge and practical skills. In addition, students are actively encouraged to take part in extracurricular activities and join various technical and cultural clubs to enhance their overall development.

ABOUT THE FDP

The Online Faculty Development Program (FDP) on *Recent Trends and Applications of Artificial Intelligence* is designed to equip faculty members with current knowledge and practical skills in the fast-evolving domain of AI. This program aims to bridge the gap between academic instruction and industry advancements by introducing participants to the latest research, tools, technologies, and applications in Artificial Intelligence.

Conducted in a virtual mode, the FDP offers the convenience of remote learning without compromising on quality. The sessions will cover key areas such as machine learning, deep learning, natural language processing, computer vision, AI ethics, and AI-driven decision-making. In addition, participants will explore real-world case studies and industry use-cases in sectors like healthcare, manufacturing, finance, smart systems, and education.

Renowned academicians, researchers, and industry professionals will deliver expert lectures and hands-on demonstrations, fostering an engaging and interactive learning experience. Participants will also have the opportunity to collaborate, share ideas, and discuss future research directions.

ORGANIZERS

CHIEF PATRON

Mr. Prabhat Agrawal
Honorable Chairman, EIT, Faridabad

PATRON

Dr. Arvind Kumar Pandey
Director, EIT Faridabad

COORDINATOR

Dr. Anurag Dwivedi
Dean, R&D, EIT, Faridabad

CO-COORDINATOR

Dr. Pramod Singh
Dean First Year, EIT, Faridabad

Dr. Kavita Singh
Prof. ECE, EIT, Faridabad

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Asst. Professor, ECE, EIT, Faridabad

Mr. Mitar Pal
Asst. Professor, ECE, EIT, Faridabad

RESOURCE PERSON

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MNNT, Allahabad, U.P., India

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Associate Professor, IIT, Jammu, India

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Associate Professor, NIT, Jalandhar, India

Dr. Shailendra Kumar Dwivedi
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Dr. Himanshu Misra

School of computing and electrical engineering,
IIT Mandi, India

Dr. Mohammad Maroof Siddiqui

Electrical & Computer Engineering
Department, Dhofar University, Oman

KEY TOPICS

- Fundamentals of Artificial Intelligence
- Machine Learning and Deep Learning
- Computer Vision and Image Processing
- AI in Robotics
- Ethical and Societal Implications of AI
- AI in Education and Research
- Future Trends and Industry Applications

REGISTRATION

Participants interested to attend this programme should register online.

WHO CAN ATTEND

Open to faculty members from academic institutions and universities, Ph.D. research scholars, and professionals from industry.

REGISTRATION PROCESS

There is no registration fee to attend the FDP.

The FDP will be conducted online via the Google Meet platform. Interested participants are required to complete the online registration form. The registration form link and QR code are provided below.

Registration form Link:

<https://docs.google.com/forms/d/1eGdIT6JEhIB2hgrQPXrfelhqW4aRnl-JbZOsgqYjAe0/edit>



FDP Platform:

The Google Meet link for each session will be shared with participants via email and the WhatsApp group.



Address for Communication:

The Co-coordinator

FDP ON Recent Trends and Applications of
Artificial Intelligence

Electronics and Communication
Engineering, Echelon Institute of
Technology (EIT), Faridabad, Haryana,
E-Mail:

pramodsingh@eitfaridabad.co.in

Mobile: 7983660661, 9990272539

Recent Trends and Applications of Artificial Intelligence

Five-Day Online Faculty Development Programme / 14–18 July 2025

The Department of Electronics & Communication Engineering organized a five-day online FDP to familiarise faculty members and research scholars with recent advances in Artificial Intelligence and its applications across engineering domains. The programme provided a platform for expert interaction, interdisciplinary learning and discussion of emerging research directions.

Themes and technical focus

- Recent trends in AI and generative AI.
- AI applications in land-cover classification, remote sensing and environmental monitoring.
- AI-enabled electrical systems, predictive maintenance, load forecasting and smart grids.
- AI-based control, robotics, industrial automation and process control.
- AI/ML applications in electric vehicles, smart transportation and electric motor control.

Learning outcomes

- Broader awareness of current AI methods and their engineering applications.
- Ideas for integrating AI concepts into teaching and curriculum.

Encouragement for collaborative research, interdisciplinary projects and proposals.

KNOWLEDGE THAT TRAVELS

The FDP connected emerging AI concepts with practical engineering use cases and future research possibilities.

INSTITUTIONAL PRIDE

Celebrating the Spirit of Freedom

79th Independence Day / 15 August 2025

Echelon Institute of Technology celebrated the 79th Independence Day with patriotism and enthusiasm. The campus came alive in the colours of the Tricolour as faculty members, staff and students gathered for the flag-hoisting ceremony and the national anthem.

In his address, the Director recalled the sacrifices of freedom fighters and encouraged the Echelon community to uphold unity, integrity and hard work. The celebration also reflected on the institute's growth and the importance of collective effort in building a stronger institution and nation.



EIT Receives the Next Gen Edupreneur Award

ICT Academy BRIDGE '25 | New Delhi | 5 September 2025

Echelon Institute of Technology was honoured with the ICT Academy Next Gen Edupreneur Award at the 66th edition of ICT Academy BRIDGE '25. The award was received on behalf of Chairman Shri Prabhat Aggarwal by Mr. Rajender Bansal.

Themed "Empowering Tomorrow: AI, Skills & Global Competence", BRIDGE '25 brought together educators, policymakers and industry leaders to discuss AI readiness, future-proof skills and global opportunities. The institute was represented by Ms. Nidhi (Management), Dr. Arvind Pandey (Director), Dr. Rajesh Kumar Singh (Dean Academic) and Mr. Ujjwal (TPO).

An Initiative by "The Last Centre"

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ECHELON INSTITUTE OF TECHNOLOGY, FARIDABAD

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**THE NEXT GEN
EDUPRENEUR AWARD**



**Next-Gen
Edupreneur Award 2025**

**Proud Moment for
Echelon Institute of Technology, Faridabad**

At ICT Academy BRIDGE '25 – 66th Edition, New Delhi, our Institution
was honored with the prestigious ICT Academy
Next Gen Edupreneur Award

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SCHOOL OUTREACH AND EXPERIENTIAL LEARNING

Coden'Circuitz: From Concepts to Circuits

CircuitCrate Initiative with Ryan International School | 15-17 October 2025

Echelon Institute of Technology welcomed Mr. Manoj Rawat and students from Ryan International School under the CircuitCrate initiative. The visit began with a campus and laboratory tour, giving students a closer look at EIT's learning environment and opportunities for practical exploration.

Workshop highlights

- **Workshop was conducted by the ECE student's Startup Circuit Crate**
- Introduction to basic electronic components.
- Working with circuit simulator software.
- Microcontroller-based projects and practical implementation.
- Hands-on circuit design, experimentation and interaction with the CircuitCrate team.

The workshop connected classroom concepts with real-world applications in electronics and embedded systems. Student coordinators listed in the event material were Raghav Kumar Chaudhary, Muskaan, Mahesh and Isha. Faculty coordinator: Prof. (Dr.) Pramod Singh, Dean First Year.

ECHELON INSTITUTE OF TECHNOLOGY, FARIDABAD

— WELCOME TO THE FUTURE OF EDUCATION —

Day 01

Welcomes
RYAN INTERNATIONAL SCHOOL
CODEN'CIRCUITZ
WORKSHOP



Date

15 - 17 Oct 2025



Venue

Eit Campus



+91 9999753763

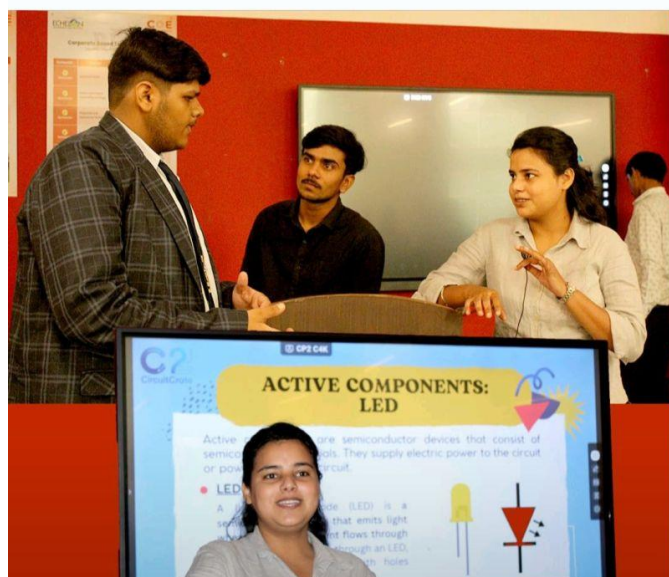
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CIRCUITCRATE







STUDENT ACHIEVEMENT

Best Hardware Award at Zinnovation 3.0

National-Level Hackathon / Chandigarh University, Mohali

Team Innervision represented Echelon Institute of Technology at the national-level Zinnovation 3.0 hackathon hosted by Chandigarh University, Mohali. The supplied event material reports participation by more than 900 teams from across India and records Team Innervision's achievement of the Best Hardware Award.

Team Innervision

- Yash Sharma — BCA, 2nd Year
- Shreeya Sampada Nayak — BCA, 2nd Year
- Granth Kumar — BCA, 2nd Year
- Muskan Singh — ECE, 4th Year
- Gauri Panchal — CSE, 4th Year

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NATIONAL-LEVEL HACKATHON

ZINNOVATION 3.0

ORGANIZED AT CHANDIGARH UNIVERSITY, MOHALI



Congratulations

BEST HARDWARE AWARD

TEAM (INNERVISION) MEMBERS:

YASH SHARMA
BCA, 2nd year

SHREEYA SAMPADA NAYAK
BCA, 2nd year

GRANTH KUMAR
BCA, 2nd year

MUSKAN SINGH
ECE, 4th year

GAURI PANCHAL
CSE, 4th year



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Gold at IIT Kanpur UDGOSH 2025

EIT Volleyball Team

Echelon's volleyball team clinched the Gold Medal at IIT Kanpur's UDGOSH 2025 inter-college sports festival. The achievement reflects the players' dedication, teamwork and sportsmanship, and brought pride to the institute.



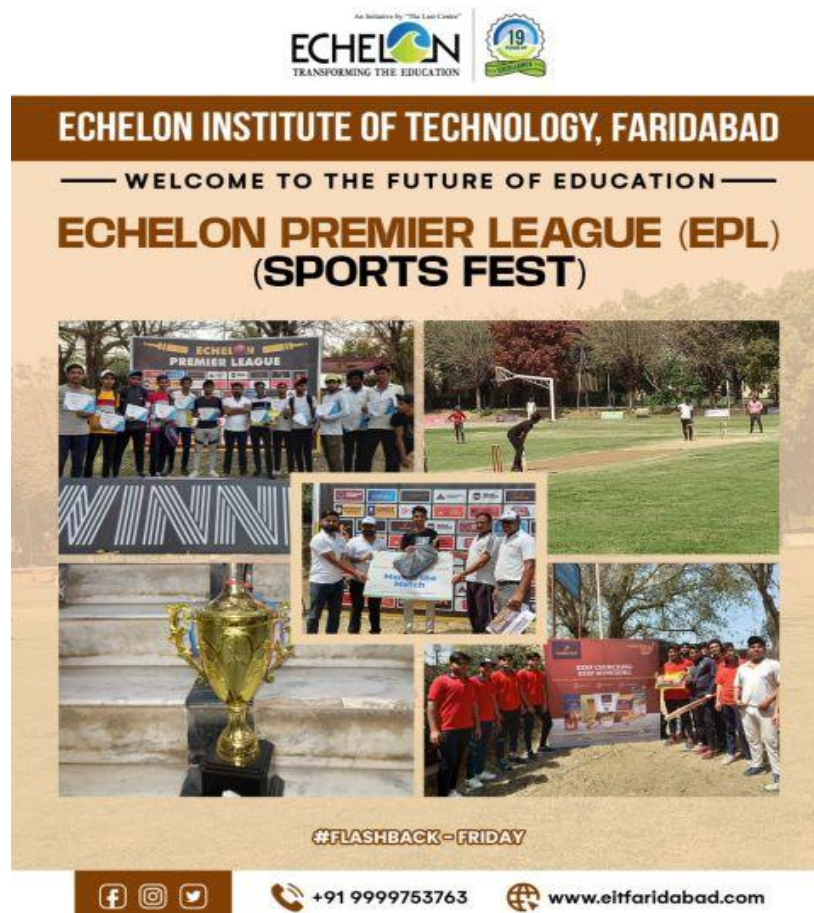
CAMPUS LIFE AND STUDENT ENGAGEMENT

Echelon Premier League (EPL)

Sports Fest | 14 November 2025

EPL brought together enthusiastic players in a celebration of energy, teamwork and sportsmanship. From competitive matches to individual performances, students demonstrated dedication, discipline and a strong spirit of participation.

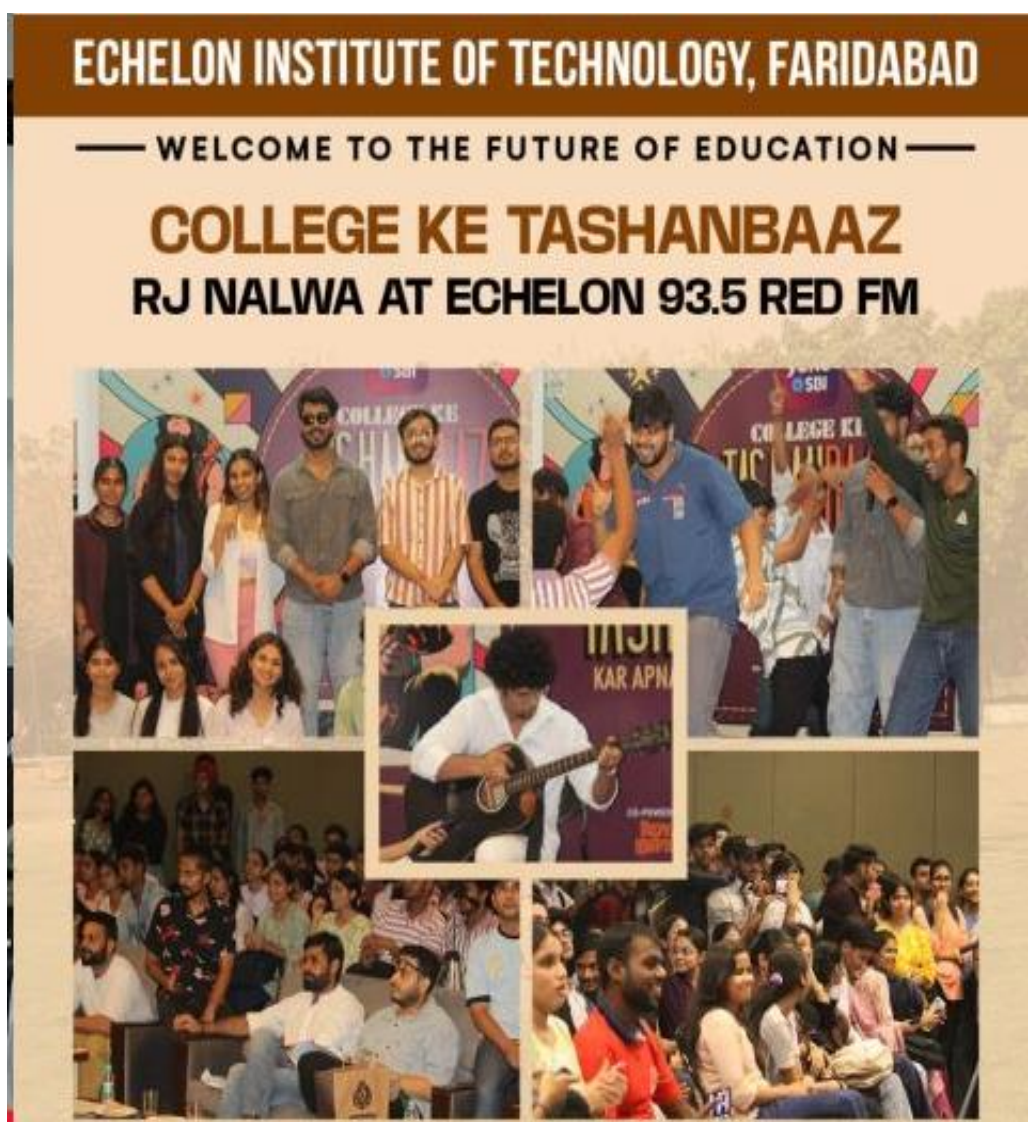
- High-energy matches and spirited competition.
- Recognition of top performers and Man of the Match achievers.
- Trophy celebrations and an emphasis on teamwork, leadership and camaraderie.



College Ke Tashanbaaz with RJ Nalwa

28 November 2025

RJ Nalwa joined the College Ke Tashanbaaz programme at EIT and shared positive feedback about the campus environment, student talent and energy. His remarks highlighted Echelon as a platform where young people can explore, express themselves and excel.



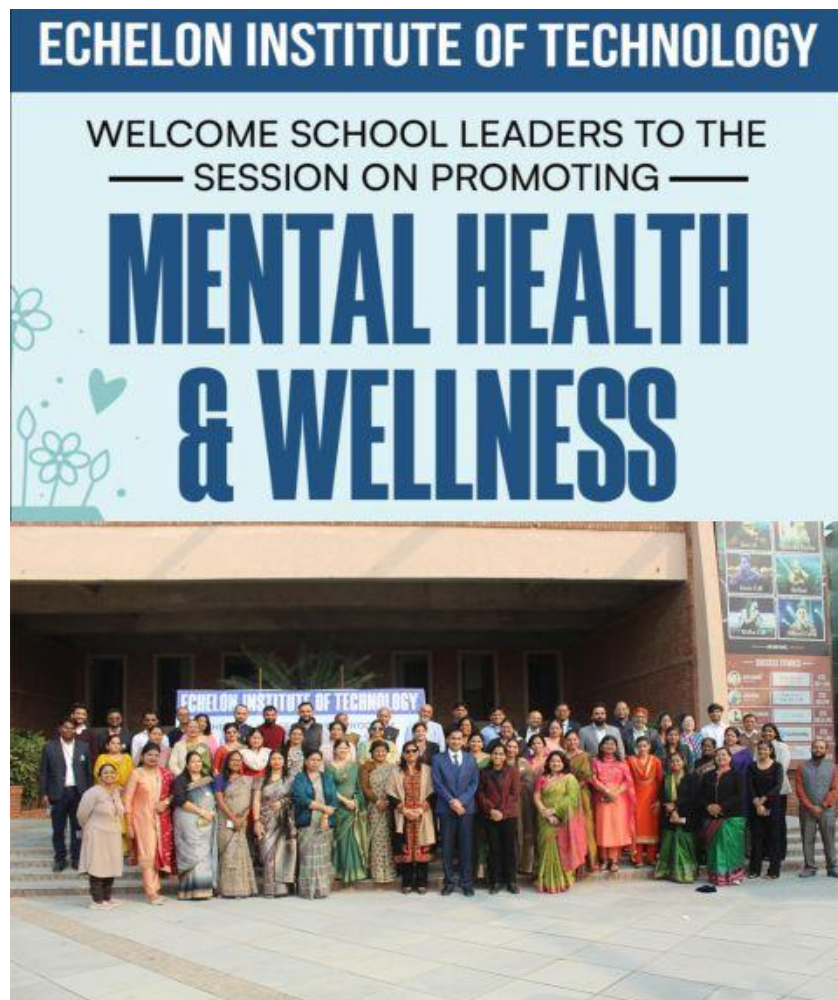
COMMUNITY ENGAGEMENT AND EMERGING TECHNOLOGY

Promoting Mental Health & Wellness for Educators

Sahodaya School Complex – Faridabad Educational Chapter | 23 November 2025

Echelon Institute of Technology hosted an educational chapter event on mental health and wellness for educators. Principals from more than 47 schools across Faridabad, along with senior faculty coordinators, participated in the gathering.

The programme was graced by Sh. Suresh Chander, President of Sahodaya School Complex, Faridabad and Founder & Managing Director of Grand Columbus International School, and Ms. Vijaya Luxmi, Managing Director of Vrinda International School.



Drone Technology Workshop

27 November 2025 / Resource Person: Mr. Rahul Sharma, Director, Hawk Devices

The workshop introduced B.Tech, BCA and MCA students to drone fundamentals, components, working principles, applications and career opportunities. The expert session was followed by hands-on assembly of a multirotor drone and an outdoor flying demonstration on the institute campus.

- Exploration of frames, motors, propellers, electronic components and connections.
- Discussion of drone applications in surveillance, defence, agriculture, logistics, aerial cinematography, inspection, disaster management and smart cities.
- Awareness of project, career and entrepreneurship opportunities in the drone ecosystem.







LOOKING BACK | MOVING FORWARD

A Semester of Learning, Recognition and Shared Purpose

The July–December 2025 period reflected Echelon Institute of Technology's commitment to a holistic educational experience—one that combines academic development with innovation, hands-on learning, community engagement and student achievement.

FACULTY DEVELOPMENT

The AI FDP supported continued learning around emerging technologies and their engineering applications.

INNOVATION IN ACTION

CircuitCrate's Coden'Circuitz workshop and Team Innervision's Best Hardware Award showcased curiosity, practical skills and creative problem-solving.

STUDENT EXCELLENCE

The volleyball team's gold medal at IIT Kanpur UDGOSH 2025 and participation in EPL celebrated discipline, teamwork and sportsmanship.

COMMUNITY CONNECTION

The educator wellness gathering and campus programmes strengthened engagement with schools, guests and the wider community.

RESPONSIBLE CITIZENSHIP

The Independence Day celebration reinforced unity, integrity and the responsibility to contribute to a stronger India.

INNOVATE • BUILD • LEARN

Department of Electronics & Communication Engineering
Echelon Institute of Technology, Faridabad